

NOVEMBER/DECEMBER 2023

**DAM32/GAM32 — AGRICULTURAL AND
ENVIRONMENTAL MICROBIOLOGY**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is Phyllosphere?
2. Define Pedology.
3. Who coined the term Mycorrhiza?
4. Define biofertilizer.
5. Define Pathogen.
6. What is edpidemiology?
7. What are nektons?
8. Define eutrophication.
9. Define humus.
10. What is meant by gasification?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Write about the rhizosphere.

Or

- (b) What is antagonism? Explain it.

12. (a) Explain the Sulphur cycle.

Or

- (b) Describe about Azolla–Anabaena symbiosis.

13. (a) Give an account of the causal organism, symptoms and control measures of Head smut of sorghum.

Or

- (b) Describe the causal organism and symptoms of damping off of tobacco disease. Add a note on its control measures.

14. (a) Give a concise note on pond ecosystem.

Or

- (b) Define aeroallergens. Give a brief note on it.

15. (a) Define Potability of water. Explain IMVIC test.

Or

- (b) Define waste. Describe the different sources of wastes.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.



16. Discuss about chemical characteristics of soil.

17. Write an essay on carbon cycle.

18. Give an account on causal organism, symptoms, disease cycle and control measures of late blight of potato.

19. Explain the control structure, pathogenicity and diagnosis of Influenza virus infection.

20. Discuss in detail the various methods of compost making.